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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/007,472	11/08/2001	Richard P. Mackey	42390P12248	8 3598		
8791 7	8791 7590 06/10/2004			EXAMINER		
	SOKOLOFF TAYLOR &	HUYNH, KIM T				
12400 WILSHIRE BOULEVARD, SEVENTH FLOOR LOS ANGELES, CA 90025			ART UNIT	PAPER NUMBER		
			2112			
			DATE MAILED: 06/10/2004	フ		

Please find below and/or attached an Office communication concerning this application or proceeding.

7

Office Action Summary		Applicatio	n No.	Applicant(s)	U		
		10/007,47	2	MACKEY ET AL.			
		Examiner		Art Unit			
		Kim T. Huy		2112			
The MAILIN Period for Reply	IG DATE of this communication	n appears on the	cover sheet with the c	orrespondence addre	9SS		
A SHORTENED S THE MAILING DA - Extensions of time may after SIX (6) MONTHS - If the period for reply is - If NO period for reply is - Failure to reply within the	TATUTORY PERIOD FOR R TE OF THIS COMMUNICATI be available under the provisions of 37 C from the mailing date of this communication pecified above is less than thirty (30) days, specified above, the maximum statutory pure set or extended period for reply will, by the Office later than three months after the ustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no eve on. , a reply within the statu period will apply and will statute, cause the appli	nt, however, may a reply be tim tory minimum of thirty (30) days I expire SIX (6) MONTHS from to cation to become ABANDONEI	ely filed will be considered timely. the mailing date of this comm D (35 U.S.C. § 133).	nunication.		
Status				•			
1) Responsive	to communication(s) filed on	08 November 20	<u>001</u> .	•			
2a)☐ This action i	s FINAL. 2b)⊠	This action is no	on-final.				
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Disposition of Claims	S	•					
4a) Of the ab 5) ☐ Claim(s) 6) ☑ Claim(s) <u>1-2</u> 7) ☐ Claim(s)		thdrawn from cor					
Application Papers							
10)⊠ The drawing Applicant ma Replacement	ation is objected to by the Exacts (s) filed on 11 August 2001 is a not request that any objection to drawing sheet(s) including the codeclaration is objected to by the	/are: a)⊠ accep to the drawing(s) b correction is require	e held in abeyance. See ed if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR			
Priority under 35 U.S	.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
	n's Patent Drawing Review (PTO-94 e Statement(s) (PTO-1449 or PTO/S		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		52)		

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-29 are rejected under 35 U.S.C. 102(e) as being anticipated by Pawlowski et al. (Pub. No US20010037426)

As per claim 1. Pawlowski discloses a system comprising:

- a controller responsive to interrupt signals received on one or more interrupt signal inputs; [0025],[0034]
- an interrupt message receiver coupled to the one or more interrupt signal inputs; and [0042]
- a plurality of interrupt sources to transmit interrupt messages to the
 interrupt message receiver through a data bus, wherein the interrupt
 message receiver further comprises logic to initiate interrupt signals on the
 one or more interrupt signal inputs in response to receipt of interrupt
 messages from the data bus. [0032-0034]

As per claims 9, 16, 23, discloses a method comprising:

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- receiving interrupt messages on a data bus from a plurality of interrupt sources; and [0035-0036]
- selectively initiating interrupt signals to a controller on one or more interrupt signal inputs in response to each received interrupt message.[0039-0040]

As per claims 2, 10, 17, 24, discloses wherein the interrupt message receiver comprises logic to decode each interrupt message in response to receipt of one or more write transactions received from the data bus. [0033-0034] As per claims 3, 11, 18, 25, discloses wherein the system further comprises a register of bits, each interrupt source corresponding with one bit, and wherein the interrupt message receiver comprises logic to set a bit in response to receipt of an interrupt message from an interrupt source corresponding with the bit and wherein the controller comprises logic to clear the bit in response to completion of servicing an interrupt associated with the interrupt message. [0042],[0056] As per claims 4, 12, 19, 26, discloses wherein the controller comprises a first interrupt signal input to receive an IRQ interrupt signal and a second interrupt signal input to receive a FIQ interrupt signal. [0032-0033] As per claims 5,13, 20, 27, discloses wherein controller comprises logic to service interrupts in response to interrupt signals received on the one or more interrupt signal inputs the system further comprises an interrupt controller comprising:

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 logic to maintain a record of at least one unserviced interrupt message received at the interrupt message receiver from an interrupt source; and [0032]

logic to initiate an interrupt signal on an interrupt signal input in to service
the unserviced interrupt message in response to completion of an interrupt
service by the controller. [0056]

As per claims 6, 14, 21, 28, discloses wherein the interrupt controller further comprises:

- logic to define a priority for one or more interrupt sources; [0039]
- logic to maintain a queue of unserviced interrupt messages based upon the priority; and [0039-0040]
- logic to select an unserviced interrupt message from the queue in response to completion of an interrupt service by the controller. [0056]

As per claims 7, 15, 22, 29, discloses wherein the interrupt controller further comprises a plurality of interrupt signal inputs and the interrupt controller further comprises:

- logic to associate each interrupt source with an interrupt signal input;
 [0033]
- logic to maintain a queue of unserviced interrupt messages for each interrupt signal input, each unserviced interrupt messages being received from an interrupt source associated with the interrupt signal input; and [0032]

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 logic to select an unserviced interrupt message from a queue in response to completion of an interrupt service initiated at the interrupt signal input associated with the queue. [0056]

As per claims 8, discloses wherein the system comprises a plurality of controllers, each controller comprising one or more interrupt signal inputs, and wherein the interrupt message receiver is coupled to each interrupt signal input of the controllers.[0035-0036]

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Rankin et al. [Pub. No US20030061423] discloses balancing interrupts among processors.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kim Huynh whose telephone number is (703)305-5384 or via e-mail addressed to [kim.huynh3@uspto.gov]. The examiner can normally be reached on M-F 8:30AM- 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (703) 305-4815 or via e-mail addressed to [mark.rinehart@uspto.gov]. The fax phone numbers for the organization where this application or proceeding is assigned are (703)872-9306 for regular communications and After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)306-5631.

SUPERVISURY PATENT EXAMINER
TECHNOLOGY CENTER 2100

Kim Huynh

June 4, 2004